PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 29920-75196	FOR FURTHER AC	TION	See Form PCT/IPEA/416				
International application No.	International filing date (day/month/year)	Priority date (day/month/year)				
PCT/US04/19438	17 June 2004 (17.06.200	4)	19 June 2003 (19.06.2003)				
International Patent Classification (IPC)			13 valie 2003 (13.00.2003)				
IPC(7): B01D 15/08 and US C1.: 210/19	98.3. 658. 243: 204/450. 60	00					
Applicant							
ADVANCED RESEARCH AND TECH	NOLOGY INSTITUTE, II	NC.					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of	2. This REPORT consists of a total of 3 sheets, including this cover sheet.						
3. This report is also accomp	3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applica	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the	he International Bureau	only) a total of (in	dicate type and number of electronic				
carrier(s))		,	71				
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indica	ations relating to the follo	owing items:					
Box No. I Ba							
Box No. II Pr	iority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV La	ack of unity of invention						
	easoned statement under Article 35(2) with regard to novelty, inventive step or dustrial applicability; citations and explanations supporting such statement						
Box No. VI Ce	ertain documents cited						
Box No. VII Ce	ertain defects in the international application						
Box No. VIII Ce	ertain observations on the	e international applica	ition				
Date of submission of the demand		Date of completion of this report					
11 April 2005 (11.04.2005)		16 May 2005 (16.05.2005)					
Name and mailing address of the IPEA/ US		Authorized officer	01 1, 1000				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		T C	IluhIMIX V				
P.O. Box 1450		Ernest G. Therkorn					
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Form PCT/IPEA/409 (cover sheet)(January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International	application	No.	

PCT/US04/19438

BOX NO	b. 1 Basis of the report						
1. With	h regard to the language, this report is based on the international application in the language in which it was , unless otherwise indicated under this item.						
	his report is based on translations from the original language into the following language, hich is the language of a translation furnished for the purposes of:						
	international search (under Rules 12.3 and 23.1(b))						
	publication of the international application (under Rule 12.4)						
	international preliminary examination (under Rules 55.2 and/or 55.3)						
furni.	. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
\boxtimes	the international application as originally filed/furnished						
	the description:						
_	pages 1-34 as originally filed/furnished						
	pages* NONE received by this Authority on						
	pages* NONE received by this Authority on						
\boxtimes	the claims:						
	pages 35-42 as originally filed/furnished						
	pages* NONE as amended (together with any statement) under Article 19						
	pages* NONE received by this Authority on						
	pages* NONE received by this Authority on received by the received						
\square	the drawings:						
	pages 1-15 as originally filed/furnished						
	pages* NONE received by this Authority on						
	pages* NONE received by this Authority on						
لــا	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.						
3. 🛛	The amendments have resulted in the cancellation of:						
	the description, pages NONE						
	the claims, Nos. NONE						
	the drawings, sheets/figs NONE						
	the sequence listing (specify): NONE						
	any table(s) related to the sequence listing (specify): NONE						
4	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).						
	the description, pages						
	the claims, Nos						
	the drawings, sheets/figs						
	the sequence listing (specify):						
	any table(s) related to the sequence listing (specify):						
* If item	4 applies, some or all of those sheets may be marked "superseded."						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/19438

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1. Statement									
Novelty (N)	Claims	1-47		YES					
	Claims			NO					
Inventive Step (IS)	Claima	1.47		· · · · ·					
inventive step (13)	Claims Claims			YES NO					
			· · · · · · · · · · · · · · · · · · ·						
Industrial Applicability (IA)	Claims			YES					
	Claims	NONE		NO					
Claims 1-47 meet the criteria set out in PCT Article 33(2 manner of and apparatus for performing electrochromator Claims 1-47 meet the criteria set out in PCT Article 33(4 can be made or used in industry.	graphy.			٠					
NEW CITATIONS									
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·									
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